

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one said component, said system comprising:

- at least one sensor for monitoring ~~[[said]]~~ the water flow and consumption, including water temperature ~~[[and]]~~ or water pressure, in ~~[[said]]~~ the water-based system and for generating signals indicative of the operation thereof;
- at least one interface module for receiving signals from ~~[[said]]~~ the at least one sensor;
- at least one fluid control device operable with ~~a said~~ the at least one interface module for restricting the water flow and consumption in ~~[[said]]~~ the water-based system when ~~[[said]]~~ at least one of the water temperature ~~[[or]]~~ and water pressure exceeds a predetermined threshold level; and
- a power panel for receiving a processor and ~~[[said]]~~ the at least one ~~of said~~ interface module~~[[s]]~~, ~~[[said]]~~ the processor being in communication with ~~the~~ the at least one ~~[[said]]~~ the interface module for interpreting signals from ~~[[said]]~~ the sensor.

2. (Cancelled)

3. (Currently Amended) A system as recited in claim 1, wherein ~~[[said]]~~ the at least one sensor comprises a fluid flow sensor to sense the water flow within a component of the water-based system.

4. (Currently Amended) A system as recited in claim 1, wherein ~~[[said]]~~ the at least one sensor comprises a pressure sensor ~~connected~~ to sense the pressure inside ~~the a said~~ component of ~~[[said]]~~ the water-based system and to generate an output signal when the ~~sensor~~ pressure exceeds a predetermined threshold.

5. (Currently Amended) A system as recited in claim 1, wherein ~~[[said]]~~ the at least one fluid control device comprises a valve in ~~[[said]]~~ the water based systems ~~supply~~ line.

6. (Currently Amended) A system as recited in claim 1, wherein ~~[[said]] the~~ at least one interface module ~~controls a said~~ communicates with the at least one fluid control device to ~~[[for]]~~ disconnect~~[[ing]]~~ a water or energy source from ~~[[said]] the~~ water-based system.
7. (Currently Amended) A system as recited in claim 1, wherein the processor receives a signal from ~~[[said]] the~~ at least one sensor, and in response thereto, communicates with ~~[[said]] the~~ at least one interface module to close ~~[[the]] a~~ valve in ~~[[said]] the~~ water supply line.
8. (Cancelled)
9. (Currently Amended) A system as recited in claim 1, ~~including~~ further comprising a motherboard with a communication port enabling communications via ~~[[said]] the~~ processor.
10. (Currently Amended) A system as recited in claim 9, wherein ~~[[said]] the~~ motherboard includes an information port for establishing a computer network interface.
11. (Currently Amended) A system as recited in claim 10, wherein ~~[[said]] the~~ at least one interface module is configured by a remote computer via ~~[[said]] the~~ information port.
12. (Currently Amended) A system as recited in claim 11, wherein ~~[[said]] the~~ at least one interface module is operable to configure an internet website.
13. (Currently Amended) A method for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one said component, said system comprising:
- generating signals indicative of a water consumption parameter sensed from ~~[[said]] the~~ water-based system, where ~~[[said]] the~~ parameter is selected from the group consisting of water temperature and water pressure;
 - receiving the generated signals to monitor ~~[[said]] the~~ parameter;
 - operating a fluid control device for restricting the water consumption in response to the received signal when ~~[[said]] the~~ signal exceeds a predetermined threshold level;
 - and

information processing of the received signal providing a communication interface for interpreting signals.

14. (Currently Amended) A method as recited in claim 13, wherein the water-based system resides in a residential structure requiring monitoring and control of the water flow and consumption thereof.

15. (Currently Amended) A method as recited in claim 13, wherein the water-based system is a tank-less toilet comprising measurement and control of the water metered through the tank-less toilet.

16. (Currently Amended) A system for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one said component, said system comprising:

at least one sensor for monitoring a water parameter in the water-based system, where the parameter is selected from the group consisting of water temperature and water pressure;

a processor in communication with the at least one sensor and for monitoring and controlling the water flow and consumption; and

a fluid control device operable with the processor for restricting the consumption of water in the water-based system when the parameter exceeds a predetermined threshold level.

17. (Currently Amended) The system as recited in claim 16, wherein the processor is in a housing providing a circuit box for receiving the at least one sensor and a receiver, each of the at least one sensor and receiver acting as a circuit breaker of the monitored water-based system to protect from malfunction of the water-based system.

18. (Currently Amended) A system as recited in claim 16, wherein the processor is connected to a network interface bi-directional data communications device.

19. (Currently Amended) A system as recited in claim 16, wherein ~~[[said]]~~ the processor is connected to a multi media interface for interactive video ~~communication~~ communication, and for identifying a location in which the monitored water-based system operates.

20. (Currently Amended) A system as recited in claim 16, including a motherboard for receiving ~~[[said]]~~ the processor, the motherboard having a connection for electronically communicating with one or more processors on other motherboards.